

MEDICAL DEVICE WITH POSITION SENSOR HAVING CORE WITH HIGH PERMEABILITY MATERIAL FOR DETERMINING LOCATION COORDINATES

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REGRESSING HEAT EXPERIMENT

	1		2		3		4	
	sensitivity	resistance	sensitivity	resistance	sensitivity	resistance	sensitivity	resistance
30	2.6290	1.39	176.30	12.59	2.3925	1.30	165.20	12.89
35	2.6327	1.25	178.90	10.96	2.3958	1.18	168.00	11.01
40	2.6356	1.13	181.80	9.19	2.3990	1.03	171.00	9.06
45	2.6390	1.00	184.40	7.65	2.4025	0.86	173.90	7.25
50	2.6419	0.89	187.40	5.92	2.4057	0.74	176.40	5.73
55	2.6457	0.75	190.40	4.25	2.4087	0.62	178.90	4.25
60	2.6489	0.63	192.80	2.96	2.4116	0.50	181.80	2.59
65	2.6519	0.51	195.80	1.38	2.4148	0.36	184.30	1.19
70	2.6567	0.37	198.50	0.00	2.4176	0.25	186.50	0.00
75	2.6599	0.21			2.4207	0.12		
80	2.6555	0.00			2.4236	0.00		
slope	-0.0266	-0.3165			-0.0250	-0.3233		
					-0.0289	-0.3305		

	5		6		7		8	
	sensitivity	resistance	sensitivity	resistance	sensitivity	resistance	sensitivity	resistance
30	3.3480	1.00	235.7	12.16	2.4057	1.25	167.4	13.02
35	3.3506	0.92	239.3	10.49	2.4061	1.15	169.6	11.56
40	3.3533	0.84	242.8	8.90	2.4108	1.04	171.9	10.06
45	3.3568	0.74	246.7	7.17	2.4141	0.90	174.7	8.30
50	3.3605	0.62	250.9	5.38	2.4157	0.79	177.3	6.71
55	3.3642	0.51	254.4	3.93	2.4196	0.66	179.6	5.35
60	3.3674	0.42	258.7	2.20	2.4232	0.52	182.2	3.84
65	3.3708	0.32	261.7	1.03	2.4265	0.38	184.6	2.49
70	3.3749	0.20	264.4	0.00	2.4293	0.27	186.9	1.23
75	3.3780	0.10	267.9		2.4326	0.13	189.2	0.00
80	3.3815	0.00			2.4358	0.00		
slope	-0.205	-0.3124			-0.0253	-0.2934		
					-0.0266	-0.5271		
					-0.0219	-0.3069		

FIG. 6